GENERAL ELECTRICAL EQUIPMENT SCHEDULE

THE SYMBOLS AND THE EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

ITEM NO.

SYMBOL

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

DESCRIPTION

NO.			
1	DEVICE COLOR	ALL SWITCH, RECEPTACLE, OUTLET, AND COVERPLATE COLORS SHALL BE VERIFIED WITH ARCHITECT, UNLESS INDICATED OTHERWISE.	HUBBELL LEVITON PASS & SEYMOUR COOPER
2	COVER PLATES	ALL SWITCHES, RECEPTACLES, AND OUTLETS SHALL BE COMPLETE WITH UNBREAKABLE THERMOPLASTIC COVERPLATES IN FINISHED SPACES WHERE WALLS ARE FINISHED; #302 STAINLESS STEEL COVERPLATES IN UNFINISHED SPACES FOR FLUSH BOXES; AND GALVANIZED STEEL COVERPLATES IN UNFINISHED SPACES FOR SURFACE MOUNTED BOXES. WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVER PLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED.	HUBBELL LEVITON PASS & SEYMOUR COOPER
3	S	SWITCH, SINGLE POLE, SINGLE THROW, 120/277 VOLT, 20 AMP. TOGGLE HANDLE, MAINTAINED CONTACT, SIDE AND BACK WIRED,	HUBBELL HBL1221 LEVITON 1221-2 PASS & SEYMOUR PS20AC1 COOPER 2221
4	S3	SWITCH, THREE WAY, 120/277 VOLT 20 AMP. TOGGLE HANDLE, SIDE AND BACK WIRED,	HUBBELL HBL1223 LEVITON 1223-2 PASS & SEYMOUR PS20AC3 COOPER 2223
5	S ₄	SWITCH, FOUR WAY, 120/277 VOLT 20 AMP. TOGGLE HANDLE, SIDE AND BACK WIRED,	HUBBELL HBL1224 LEVITON 1224—2 PASS & SEYMOUR PS20AC4 COOPER 2224
6	Ф	RECEPTACLE, DUPLEX, 125 VOLT, 20 AMP,3 WIRE GROUNDING TYPE, N.E.M.A. 5-20R, IMPACT RESISTANT THERMOPLASTIC FACE, STEEL BACK STRAP.	HUBBELL 5352A LEVITON 5362-S
	#	DOUBLE DUPLEX, CONSIST OF TWO DUPLEX RECEPTACLES, DOUBLE GANG BOX, PLASTER RING AND FACEPLATE.	PASS & SEYMOUR 5362 COOPER 5352
7	Ф	RECEPTACLE, GROUND FAULT DUPLEX, 125 VOLT, 20 AMP, 3 WIRE GROUNDING TYPE, N.E.M.A. 5-20R. TEST AND RESET BUTTONS IN IMPACT RESISTANT THERMOPLASTIC FACE.	HUBBELL GF20L LEVITON 7899 PASS & SEYMOUR 2095 COOPER VGF20
	#	DOUBLE DUPLEX, CONSIST OF TWO DUPLEX RECEPTACLES, DOUBLE GANG BOX, PLASTER RING AND FACEPLATE.	OGGI EIX VOI 20
8	₽ ^w	RECEPTACLE, GROUND FAULT DUPLEX, WEATHER RESISTANT, WEATHERPROOF COVERPLATE, 125 VOLT, 20 AMP, 3 WIRE GROUNDING TYPE, N.E.M.A. 5-20R. TEST AND RESET BUTTONS IN IMPACT RESISTANT THERMOPLASTIC FACE, NEMA 3R RATED WHILE IN USE, CLEAR, NON-LOCKING, STANDARD DEPTH, VERTICAL MOUNT.	HUBBELL GF20L/WP826MP LEVITON 7899/5977-CL PASS & SEYMOUR 2095/WIUC10-C COOPER VGF20/4966
9	E E	ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZE PER N.E.C. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING EQUIPMENT OR MOTOR. SEE SPECIFICATIONS AND GENERAL INSTALLATION NOTES FOR TERMINATIONS TO MOTORS.	SEE SPECIFICATIONS
10	J	JUNCTION BOX, SIZE PER N.E.C., SEE SPECIFICATIONS FOR GENERAL CONSTRUCTION, USE OF THIS SYMBOL DOES <u>NOT</u> INDICATE ALL JUNCTION BOXES REQUIRED FOR THIS CONTRACT ARE SHOWN.	SEE SPECIFICATIONS
11	FACP-3003	FIRE ALARM CONTROL PANEL, ADDRESSABLE SYSTEM, FEATURING INTERFACE WITH ANALOG SENSING INITIATING DEVICES, EXPANDABLE MODULAR DESIGN, MICROPROCESSOR BASED ELECTRONICS, 120 VAC OPERATION, SURFACE MOUNT. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.	SIMPLEX 4XXX SERIES NOTIFIER SIEMENS FIRE SAFETY EDWARDS
12	A1 A3 AH	FIRE ALARM AUDIO/VISUAL NOTIFICATION APPLIANCE, ELECTRONIC HORN WITH SELECTABLE OR TEMPORAL TONE AND HIGH—INTENSITY STROBE, RED HOUSING WITH WHITE LETTERING OR PICTOGRAM, SEMI—FLUSH WALL MOUNT; 24 VDC. WG SUBSCRIPT INDICATES WIRE GUARD IS REQUIRED. CANDELA RATINGS: A1=15, A3=30, A7=75, AND AH=110. CANDELA RATING SHALL	SYSTEM SENSOR P24 GENTEX GEC EDWARDS EG1 SIMPLEX 4903 SIEMENS UMHST WHEELOCK HS4
		BE VISIBLE FROM THE OUTSIDE OF THE DEVICE.	
13	SD	SMOKE DETECTOR, ADDRESSABLE, ANALOG PHOTOELECTRIC SENSOR, 24 VDC, 2—PIECE DESIGN, LOW—PROFILE MOUNTING BASE WITH MULTI—FUNCTION LED INDICATOR, COMPLETE WITH MOUNTING HARDWARE AND BACKBOX. PROVIDE A REMOTE LED INDICATOR DEVICE IF DETECTOR IS NOT VISIBLE FROM A FLOOR—STANDING POSITION.	SIMPLEX 4098 SERIES NOTIFIER SIEMENS FIRE SAFETY EDWARDS
14	F	FIRE ALARM MANUAL PULL STATION, ADDRESSABLE, DOUBLE ACTION WITH PLASTIC BREAKROD, RESET KEY LOCK, SEMI-FLUSH MOUNT, RED HIGH-ABUSE PLASTIC OR CAST METAL CONSTRUCTION WITH WHITE LETTERING. USE SURFACE MOUNT ONLY ON PRECAST CONCRETE OR STRUCTURE. WG SUBSCRIPT INDICATES WIRE GUARD IS REQUIRED.	SIMPLEX 2099 SERIES NOTIFIER SIEMENS FIRE SAFETY EDWARDS

GENERAL ELECTRICAL EQUIPMENT SCHEDULE - CONTINUED

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NO.	SYMBOL	DESCRIPTION	APPROVED MANUFACTURERS
15	OC)HB	OCCUPANCY SENSOR, HIGH BAY, PASSIVE INFRARED 360 DEGREE COVERAGE 20'-40' MOUNTING HEIGHT. MINIMUM 1.3:1 WALKING MOTION COVERAGE PATTERN TO HEIGHT RATIO. ADJUSTABLE SENSITIVITY AND TIME DELAY, INTEGRAL ISOLATED RELAY CONTACT, 5 YEAR WARRANTY. SENSOR SHALL CONTROL ALL LUMINAIRES IN AREA. INITIAL SETTINGS: TIME DELAY 10 MINUTES. CONTRACTOR SHALL SUBMIT MANUFACTURER SUPPLIED SENSOR COVERAGE DRAWING FOR SHOP DRAWING REVIEW.	WATT STOPPER HB-300 SERIES HUBBELL AUTOMATION FHB 140 SERIES LEVITON OSFHU GREENGATE OEF-P
16	s _T	SWITCH, LOCAL TIMER, 125 VOLT 20 AMP RATED. 0-60 MINUTE OFF DELAY. SPRING WOUND.	PARAGON SWPD60M TORK A560M MARK-TIME 9008
17	S _X	SWITCH, EXPLOSION PROOF, SINGLE POLE 120/277 VOLT 20 AMP MAINTAINED CONTACT. TOGGLE HANDLE. SUITABLE FOR USE IN CLASS I, DIVISION I AREA.	APPLETON EDSC175-F2 CROUSE-HINGS KILLARK
18		PANELBOARD, SURFACE MOUNT, 208/120 VOLT, 3 PHASE, 4 WIRE, S/N, GROUND BUS, COPPER BUS, BOLT-ON BREAKERS, NEMA 1 ENCLOSURE, SEE SCHEDULES FOR SIZE AND CONFIGURATION, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE D NQ GENERAL ELECTRIC AQ SIEMENS P1 CUTLER—HAMMER PRL1
19	PC	PHOTOCELL, 120/277 VOLT, 1800 V.A. RATED, SINGLE POLE, SINGLE THROW CONTACT, WEATHERPROOF AND CORROSION PROOF ENCLOSURE. MOUNT FACING NORTH. U.L. LISTED. PHOTOCELL SHALL BE SAME MANUFACTURER OR COMPATIBLE WITH TIME CLOCK MANUFACTURER.	PARAGON CW-201-70 TORK 2107 INTERMATIC K4236
20	TC	TIMER, 24 HOUR, 20 AMP CONTINUOUS CONTACTS, 1 N.O. AND 1 N.C. CONTACTS, SPRING WOUND BACK-UP, 120 VOLT, OVERRIDE SWITCH, U.L. LISTED. COORDINATE INITIAL SETTINGS WITH CEMETERY DIRECTOR	PARAGON 4213-0S TORK 7200L INTERMATIC T173CR

DISCONNECT AND STARTER SCHEDULE

STARTER TYPE: FV - FULL VOLTAGE

APPROVED MANUFACTURERS

- YD WYE DELTA
- **RE REVERSING**
- TW 2 SPEED, 2 WINDING SW - 2 SPEED, 1 WINDING
- RV REDUCED VOLTAGE AUTOXFMR SS - SOLID STATE
- MX MANUAL SWITCH

FS - FUSED SWITCH

- MS MANUAL STARTER

SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)

- *CT CONTROL TRANSFORMER,
- FUSED 120V
- *EO ELECTRONIC OVERLOAD
- *HA HAND-OFF-AUTO IN DOOR *RP - RED (RUN) PILOT LIGHT IN
- DOOR

ASSEMBLY

- *TA TWO CONVERTIBLE AUXILIARY CONTACTS S/N - INSULATED NEUTRAL
- PF PHASE FAILURE RELAY (5 HP OR GREATER)
- TO MELTING THERMAL OVERLOADS
 - TS 2 SPEED SELECTOR SWITCH IN DOOR
 - GP GREEN (OFF) PILOT LIGHT IN DOOR
 - FA 4-CONVERTIBLE AUXILIARY CONTACTS
 - EI ELECTRICAL INTERLOCK (2)-N.O.& (2)-N.C
 - SS START-STOP PUSHBUTTON IN DOOR
 - HL HANDLE PADLOCK HASP

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE & RATING STARTER **HEAVY DUTY SWITCH** SIZE FUSED **TYPE** BREAKER VOLTAGE POLES

NEMA **ENCLOSURE** REMARKS RP, 115 VOLT PILOT LIGHT CIRCUIT, HL

APPROVED MANUFACTURERS SQUARE D 2510 KW1A CUTLER-HAMMER TYPE MS GENERAL ELECTRIC TYPE TC SIEMENS TYPE MMS

BID DOCUMENTS 7/1/2011

ENGINEERING CONSULTANTS 623 26TH AVENUE ROCK ISLAND, IL 61201 309.788.0673 FAX: 309.786.5967 KJWW Project # 10.0356.00 STRUCTURAL : MECHANICAL : ELECTRICAL : **TECHNOLOGY: MEDICAL EQUIPMENT SOLUTIONS**

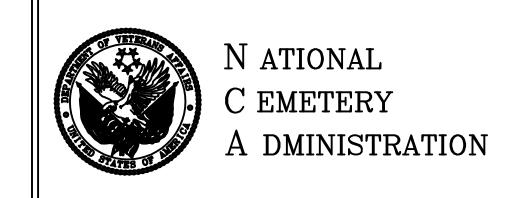
I hearby certify that this Plan, Specification, or Report was prepared by me, or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Oregon. Name: Lee D. VanOpdorp

Oregon Registration No. 78702PE Expiration date: 06.30.12

Date Issued: ** ** **

Anderson Engineering of Minnesota, LLC

13605 1st AVENUE NORTH, SUITE 100, PLYMOUTH, MN 55441 TEL (763) 412-4000 FAX (763) 412-4090 www.ae-mn.com



٦	Drawing Title	Proj		
١	ELECTRICAL MATERIAL LIST -			
	VEHICLE STOR.			
١		_		
١	Approved: Director, Office of Construction Management	Buil		
1		200		

Approved: Director, Project Management Service

REPLACE ADMINISTRATION AND MAINTENANCE BUILDING AND SITE IMPROVEMENTS JOHMCG BRAWIT

Location EAGLE POINT NATIONAL CEMETERY

Project No. 906CM3009 DRAWING NO. E-3003-5.1

7-1-2011

EAGLE POINT, OR 97524

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